

Homework 7

Deadline: Thursday, December 4 at 17:00.

Please submit your solutions either on paper at the beginning of the practicals or as a pdf-file in <https://owl.mff.cuni.cz/> . Everything that is not immediately obvious needs to be proved or quoted from lecture notes.

1. Show that if \mathbf{F} is a field, then the polynomial ring $\mathbf{F}[x]$ is a Euclidean Domain with norm given by $N(p(x)) = \deg p(x)$.